

NEXTEER

**Supplier
Information
Packet**

856

**Advanced
Shipping Notices
(ASN)**

Revised September 2015

Advanced Shipping Notices
Nexteer EDI Guidelines
856 Transaction Set

GENERAL INFORMATION

This packet is to provide information to Nexteer and SteeringMex Direct Suppliers who are sending shipping notices to Nexteer. Programming should be FIXED BLOCK – 80 Bytes.

The purpose of an advanced shipping notice (856) is to electronically communicate details of a shipment to Nexteer via EDS*Elite (formerly GM-Net).

The Nexteer Guidelines on the following pages, follow the GM Implementation Guidelines for version 002040GM. The Nexteer EDI Guideline details how Nexteer uses the ANSI X-12 transaction set within the Corporate Guidelines. It provides a standardized format for the data to be sent in a shipping schedule.

The following section provides an interpretation of each segment of the 856 transaction set that will be received by Nexteer. The EDS*Elite filename to be used is EDI856ASHP & destination code is SSG.

The Guideline will detail three areas of the transmission: Heading Area, Detail Area, and Summary Area. Any exceptions for Nexteer will be noted where applicable.

Please be sure to transmit an ASN within the first 15 - 30 minutes of the shipment leaving your Dock. The ASN must reach Nexteer before the shipment.

An overview of the process is provided, followed by barcode label requirements found at **<http://www.nexteer.com/supplier-portal/processes/shipping-and-labeling>**.

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SEGMENT: ISA - Interchange Control Header (required)

PURPOSE: The ISA Segment is the Interchange Control Header used to start & identify an interchange of one or more functional groups & interchange related control segments. This is the only “fixed length” record in the ANSI X12 standard.

EXAMPLE: 1 2 3 4 5 6 7 8 9
ISA*00* *01*SSG*01*123456789*01*005356878*970709

 10 11 12 13 14 15 16
*2400*U*00204*000000001*0*P*?.

Elem ID	Elem #	Element Name & Definition
ISA01	I01	1. Authorization Information Qualifier. Uses “00” (zeroes). *
ISA02	I02	2. Authorization Information Segment. Uses 10 spaces. **
ISA03	I03	3. Security Information Qualifier. Uses “01”.
ISA04	I04	4. Security Information. Use EDS Elit (Van) destination code of “SSG”.
ISA05	I05	5. Interchange Id Qualifier. Use “01” indicating use of a Duns number.
ISA06	I06	6. Interchange Sender ID. The Supplier will use their Duns number.
ISA07	I05	7. Interchange ID Qualifier. Use “01” indicating use of a Duns number.
ISA08	I07	8. Interchange Receiver ID. The Supplier will use Nexteer Duns number.
ISA09	I08	9. Date of the transmission. The date will be in YYMMDD format.
ISA10	I09	10. Time of the transmission. The time is based on a 24 hour clock & is in HHMM format.

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- ISA11 I10 11. Interchange stands ID. Use “U” indicating USA.
- ISA12 I11 12. Interchange Version ID. Use “00204” or “00301”.
- ISA13 I12 13. Interchange Control number. This is a sequential number starting with 1 & incrementing by 1 for each ISA between Sender & Receiver.
- ISA14 I13 14. Acknowledge Requested Segment. Use “0” indicating that an acknowledgment is not required.
- ISA15 I14 15. Test Indicator. A “T” will indicate test mode, & “P” will indicate production mode.
- ISA16 I16 16. Sub-element separator. (Your choice)

*** Note if going through a VAN or FTP - need “03” in ISA01**

****Note if going through a VAN or FTP - need “EDI856ASHP” in ISA02**

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SEGMENT: GS - Functional Group Header (required)

PURPOSE: The GS Segment indicates the beginning of a functional group & provides control information.

EXAMPLE: 1 2 3 4 5 6 7 8
 GS*SH*123456789*005356878*970709*2400*1*X*002040GM.

Elem ID	Elem #	Element Name & Definition
GS01	479	1. Functional Identifier Code. Send “SH” indicating Ship Notice / Manifest.
GS02	142	2. Application Sender’s Code. This is the Supplier’s Duns Number.
GS03	124	3. Application Receiver’s Code. This is Nexteer Duns Number 005356878.
GS04	29	4. Data Interchange Date. The format is YYMMDD.
GS05	30	5. Date Interchange Time. The format is HHMM based on a 2400 clock.
GS06	28	6. Date Interchange Control Number.
GS07	455	7. Responsible Agency Code. “X” indicates ANSI ASC X12.
GS08	480	8. Version/Release/Industry Identifier Code. Use 002040GM or 002040.

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ISA**00* **01*SSG *01*123456789*01*005356878
 *970722*2400*U*00204*000000001*0*P*.
GS*SH*123456789*005356878*970722*2400*1*X*002040GM.

HEADER	ST*856*0001 BSN*00*123456789*970709*2400 DTM*011*970709*2400 DTM*017*970805*2400	
DETAIL- SHIPMENT	HL*1**S MEA*ST*G*39501*LB – Cannot use Decimal Points TD1*PCS71*44 TD5*B*2*CETR*L TD3*TL*CETR*451030 REF*CN*PRO123456 (REQUIRED) REF*PK*123456 (REQUIRED) REF*BM*123456 REF*DK*07 _____ N1*SU**1*123456789 N1*ST**1*005356878 N1*MI**1*005356878 N1*SF**1*123456789	Nexteer Specific (REQUIRED)
DETAIL- ORDER	HL*2*1*O LIN**BP*12345678 SN1**2500*LB*12345678 PRF*SAG1234567*123456**970709	
DETAIL- ITEM	HL*3*2*I SN1**25*BD CTT*1	Nexteer Specific
SUMMARY	SE*28*001 GE*1*1 IEA*1*000000001	

*** Note if going through a VAN or FTP - need “03” in ISA01**

****Note if going through a VAN or FTP - need “EDI856ASHP” in ISA02**

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856 TRANSACTION EXAMPLE WITH MULTIPLE ORDERS

HEADER	ST*856*0001 BSN*00*123456789*970709*2400 DTM*011*970709*2400 DTM*017*970805*2400 HL*1**S MEA*WT*G*39501*LB – Cannot use Decimal Points MEA*WT*N*39501*LB – Cannot use Decimal Points TD1*PCS71*44 TD5*B*2*CETR*L*CENTRAL TD3*TL*CETR*451030 REF*CN*PRO123456 (REQUIRED) REF*PK*123456 (REQUIRED) REF*BM*123456 REF*DK*07 _____ Nexteer Specific (REQUIRED) N1*SU**1*123456789 N1*ST**1*005356878 N1*MI**1*005356878 N1*SF**1*123456789
DETAIL-SHIPMENT	HL*2*1*O LIN**BP*12345678 – CANNOT put same part # on ASN multiple times SN1**2500*LB*12345678 PRF*SAG1234567*123456**970709
DETAIL-ORDER	HL*3*2*I SN1**25*BD MEA*PD*WT*2500*LB REF*HC*12345 REF*HC*23456
DETAIL-ITEM	HL*4*1*O LIN**BP*01234567 SN1**2500*LB*12345678 PRF*SAG1234567*123456**970709
DETAIL-ORDER	HL*5*4*I SN1**25*BD MEA*PD*WT*2500*LB REF*HC*12345 CTT*1 SE*28*001 GE*1*1 IEA*1*000000001
DETAIL-ITEM	

* Note if going through a VAN or FTP - need to have “03” in ISA01

**Note if going through a VAN or FTP - need to have “EDI856ASHP” in ISA02

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SEGMENT SEQUENCE FOR THE HEADER AREA

ST	Transaction Set Header
BSN	Beginning Segment (NO greater than 10 Characters)
DTM	Date/Time Reference

SEGMENT SEQUENCE FOR THE DETAIL AREA

The Detail Area is comprised of three hierarchical levels - Detail Shipment, Detail Order & Detail Item.

The Detail Shipment level contains data that applies to the whole shipment. This will include bill of lading numbers, quantities & supplier codes.

MEA	Shipment Gross Weights
TD1	Packaging - Quantity & Type
TD5	Routing Information
TD3	Equipment Description
REF	Shipment Level Reference Number
N1	Ship To/Ship From

The Detail Order level contains data related to the order. This will include part numbers, number of units shipped & purchase order number.

LIN	Customer's Part Number
SN1	Quantity Shipped, Cumulative Quantity Shipped
PRF	Customer's Order Number (PO#)

The Detail Item level contains additional information related to the product being shipped. The Item Level will be required for all transmissions.

SN1	Number of Containers Shipped, Container Identification
MEA	Shipment Net Weights
REF	Item Level Reference Numbers

SEGMENT SEQUENCE FOR THE SUMMARY AREA

CTT	Transaction Totals
SE	Transaction Set Trailer
GE	End of Functional Group
IEA	Control Header

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SEGMENT: ST Segment Heading Level (Required)

PURPOSE: The ST Segment is the Transaction Set Header.

EXAMPLE: ST*¹856*²0001

Elem ID	AIAG #	Element Name & Definition
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ST01	143	Transaction Set. The Supplier will send “856” to identify this transaction set as an Advanced Shipping Notice.
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ST02	329	Transaction Set Control Number. This will be a unique number that will not be repeated in the calendar year.
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SEGMENT: BSN Segment Heading Level (Required)

PURPOSE: The BSN Segment is the beginning segment of the transaction set 856. It indicates the beginning of a transaction set and is used to identify number and dates.

EXAMPLE: 1 2 3 4
BSN*00*123456789*910111*2400

Elem ID	AIAG #	Element Name & Definition
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BSN01	353	Transaction Set Purpose Code. It allows the supplier to communicate the ship notice information to the customer. Steering Solutions Services Corp will only accept code "00". 00 = Original - The first transmission of the transaction set for a shipment.
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BSN02	396	Shipment ID Number (SID). This is a unique control number assigned by the original shipper to identify the shipment. This number must be referenced on both the packing list and the bill of lading as the SID. NO greater than 10 characters.
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BSN03	373	Date transaction is generated. The date will be in the YYMMDD format.
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BSN04	337	Time. This represents the time the transaction was created. The time will be in HHMM format based on a 24 hour clock.
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SEGMENT: DTM Segment Heading Level (Required)

PURPOSE: The DTM Segment is the Date/Time Reference segment.

EXAMPLE: 1 2 3
DTM*011*910111*2400 (Required)
DTM*017*910228*2400 (Optional)

Elem	AIAG	Element Name & Definition
ID	#	

DTM01	374	Date/Time Qualifier. This qualifier specifies the type of date or time. 011 - Represents shipped on this date 017 - Represents estimated arrival date.
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DTM02	373	Ship Date/Estimated Arrival Date. The date will be in a YYMMDD format.
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DTM03	337	Ship Time/Estimated Arrival Time. The time will be HHMM format based on a 24 hour clock.
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SEGMENT: HL Segment Shipment Level (Required)

PURPOSE: The HL Segments are used to organize data in a format that contains the
DETAIL-SHIPMENT, DETAIL-ORDER, and DETAIL-ITEM levels.

EXAMPLE: ^{1 3}
HL*1**S

Elem ID	AIAG #	Element Name & Definition
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HL01	628	Hierarchical ID Number representing the first occurrence in the transaction set. Each subsequent HL segment will increment by 1.
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*** Please note that Hierarchical Parent ID is blank.

HL03	735	Hierarchical Level Code. Valid codes for the HL segment are I, O, or S. Nexteer will accept "S" only to indicate shipment level.
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SEGMENT: MEA Segment Shipment Level (Required)

PURPOSE: The MEA Segment is used to specify physical measurements including dimensions, tolerances, weights and counts.

EXAMPLE: 1 2 3 4
MEA*WT*G*39501*LB – **Cannot use Decimal Points**

Elem	AIAG	Element Name & Definition
ID	#	

MEA01	737	Measurement Reference ID Code. Nexteer will accept code “WT” weight.
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MEA02	738	Measurement Qualifier. Nexteer will accept the following codes: G - Gross Weight N - Net Weight
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MEA03	739	Value of the Measured Dimension - No decimals will be accepted.
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MEA04	355	Unit of Measure code. This field identifies the basic unit of measurement. Steering Solutions Services Corp will accept the following codes: LB - Pound TN - Net Ton
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SEGMENT: TD1 Segment Shipment Level (Required)

PURPOSE: The TD1 Segment specifies transportation details relative to commodity, weight, and quantity.

EXAMPLE: 1 2
TD1*PCS71*44

Elem	AIAG	Element Name & Definition
ID	#	

TD101	103	Packaging Code. Nexteer will accept the following codes:
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Steel:	BDL52 - Bundle/Iron or Steel
	COL52 - Coil/Iron or Steel
	LIF52 - Lifts/Iron or Steel
Default:	PCS71 - Pieces/Not otherwise specified

TD102	80	Lading Quantity
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SEGMENT: TD5 Segment Shipment Level (Required)

PURPOSE: The TD5 segment is used for routing sequence & carrier information.

EXAMPLE: 1 2 3 4
TD5*B*2*CETR*L

Elem	AIAG	Element Name & Definition
ID	#	

TD501	133	Routing Sequence Code. It specifies the carrier, routing & transit time. Nexteer will accept code "B".
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TD502	66	ID Code Qualifier. Nexteer will accept code "2".
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TD503	67	This is the carrier SCAC code. On air shipments, an air bill number should be used.
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TD504	91	Transportation Mode.
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SEGMENT: TD3 Segment Shipment Level (Optional)

PURPOSE: The TD3 Segment specifies transportation details relating to the equipment & numbers used by the carrier.

EXAMPLE: 1 2 3
TD3*TL*CETR*451030

Elem	AIAG	Element Name & Definition
ID	#	

TD301	40	Equipment Description Code.
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TD302	206	Prefix or alpha part of an equipment unit's identifying number. A SCAC code may be used.
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TD303	207	Equipment Number Segment. A numeric form for the equipment number (trailer number).
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SEGMENT: REF Segment Shipment Level (Required)

PURPOSE: The REF Segment is used to transmit identifying numbers associated with the named party.

EXAMPLE: 1 2
REF*CN*PRO123456 **(REQUIRED)***
REF*PK*123456 **(REQUIRED – no greater than 10 characters)**
REF*BM*123456
REF*DK*07 **(REQUIRED)**

Elem	AIAG	Element Name & Definition
ID	#	

REF01	128	This is the Reference Number Qualifier. Nexteer will accept the following codes:
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CN - Carrier's Reference Number (Pro #)*
PK - Packing List Number
BM - Bill of Lading Number
DK - Dock Number

REF02	127	This is the Reference Number.
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***Pro # can be any of the following:**

FEDX – FEDX Tracking #
LTL Carrier – Pro #
PNII – ProTrans Pick Up # (needed by Nexteer Mex to track shipment)
Dedicated or Milk Run Truck – Routing #
Carriers – other than LTL – ProTrans Pick Up # assigned

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SEGMENT: N1 Segment Shipment Level (Required)

PURPOSE: The N1 Segment identifies the party by type of organization, name & code.
A minimum of 3 iterations of the N1 are required.

EXAMPLE: 1 3 4
N1*SU**1*123456789
N1*ST**1***005356878**
N1*MI**1***005356878**
N1*SF**1*123456789

Elem ID	AIAG #	Element Name & Definition
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N101	98	This is the Entity ID Code. This is a code identifying the type of party being defined. Mandatory codes are as follows:
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SU - Supplier
ST - Ship To
MI - Planning Schedule/Material Release Issuer

*** Please note that if the supplier location & ship from location are not identical, a forth N1 segment is mandatory. Nexteer will accept code 'SF'.

SF - Ship From

N103	66	This is the ID Code Qualifier. Nexteer will accept '1' to designate use of a DUN's number.
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N103	67	This is the ID Code. Nexteer will use DUN's Number '005356878' to identify the 'Ship To' & 'Planning Schedule/Material Release Issuer'.
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Note: For Mexico ASNs, the DUNS numbers for the plants should be used in the N1:MI (material Issuer) segment.

265 = 812392157
266 = 812563302
268 = 812138881

The above codes can be used in the N1:ST or the corresponding dock codes of 265, 266 and 268 for Mexico ASNs.

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Note: For North America ASNs post go-live on the new QAD system on February 1, 2015, the DUNS numbers for the plants should be used in the N1:MI (material Issuer) segment.

- Plant 101 = 128132896
- Plant 103 = 053333055
- Plant 106 = 033580007
- Plant 107 = 033574901
- Plant 109 = 033575437
- Plant 130 = 080341654
- Plant 132 = 078434960
- Plant 139 = 033468640
- Plant 149 = 058262267

The above codes can be used in the N1:ST or the corresponding dock codes of 101,103,106,107,109,130,132,139 and 149

SEGMENT: HL Segment Order level (Required)

PURPOSE: The HL Segment identifies dependencies among & content of related groups of data in segments.

EXAMPLE: 1 2 3
HL*2*1*O

Elem	AIAG	Element Name & Definition
ID	#	

HL01	628	This is the Hierarchical ID Number.
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HL02	734	This is the Hierarchical Level Parent ID Number. It is the ID number of the Next higher hierarchical data segment that the data segment being described is subordinated to. (Refers to shipment level - 1 being the parent ID).
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HL03	735	Code defining the characteristic of a level in the hierarchical structure. Valid codes for the HL segment are I, O, or S. Nexteer will accept 'O' to indicate Order Level.
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SEGMENT: LIN Segment Order Level (Required)

PURPOSE: The LIN Segment specifies basic item identification data.

EXAMPLE: 2 3
LIN**BP*12345678

Elem	AIAG	Element Name & Definition
ID	#	

LIN02	235	Product/Service ID Qualifier. Nexteer will accept code “BP” - Buyer’s Part Number (eight digits).
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LIN03	234	Product/Service ID. This is the identifying number for the product. Number must be 8 digits. Same part # cannot be listed multiple times. Only once per ASN. Our system does not add.
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SEGMENT: SN1 Segment Order Level (Required)

PURPOSE: The SN1 Segment represents the quantity shipped and the cumulative quantity shipped.

EXAMPLE: SN1**²2500*³LB*⁴50000

Elem	AIAG	Element Name & Definition
ID	#	

SN102	350	Number of Units Shipped.
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SN103	355	Unit of Measure Code.
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SN104	646	Quantity Shipped to Date. (Cumulative)
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SEGMENT: PRF Segment Order Level (Required)

PURPOSE: The PRF Segment provides reference to a specific purchase order.

EXAMPLE: PRF*¹SAG²90I4567*⁴123456**910111

Elem ID	AIAG #	Element Name & Definition
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PRF01	324	Purchase Order Number. This is the number on the shipment authorization document. Prefix “SAG” will only be accepted or can use just the PO.
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PRF02	328	Release Number. This is the number on the shipment authorization document. (optional)
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PRF04	323	Purchase Order Date. This is the date the purchase order originated. (optional)
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SEGMENT: HL Segment Item Level (Required)

PURPOSE: The HL Segment identifies dependencies among and content of related groups of data segments.

EXAMPLE: 1 2 3
 HL*3*2*I

Elem ID	AIAG #	Element Name & Definition
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HL01	628	Hierarchical ID Number.
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HL02	734	Hierarchical Parent ID Number.
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HL03	735	Hierarchical Level Code. Valid codes for the HL Segment are S, O, or I. Nexteer will accept "I" at the Item Level.
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SEGMENT: SN1 Segment Item Level (Required)

PURPOSE: The SN1 Segment specifies line item detail relative to the shipment.

EXAMPLE: SN1²³**25*BD

Elem	AIAG	Element Name & Definition
ID	#	

SN102	382	Number of Containers Used to Ship this Part. This is not a count of pieces shipped.
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SN103	355	Unit of Measure Code. This is a container identification code. If unsure speak with your plant contact for expected code.
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SEGMENT: MEA Segment Item Level (Optional, Unless Steel)

PURPOSE: The MEA Segment is used to specify physical measurements including dimensions, tolerances, weights, and counts.

EXAMPLE: 1 2 3 4
MEA*PD*WT*2500*LB – **Cannot use Decimal Points**

Elem	AIAG	Element Name & Definition
ID	#	

MEA01	737	Measurement Reference ID Code. Nexteer will accept code “PD” - Physical Dimensions.
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MEA02	738	Measurement Qualifier. Nexteer will accept code “WT” - Weight.
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MEA03	739	Value of the Measured Dimension. This is the Net Weight. No decimals will be accepted.
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MEA04	355	Unit of Measurement Code. This field identifies the basic unit of measurement. Nexteer will accept the following codes:
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LB - Pound
TN - Net Ton

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SEGMENT: REF Segment Item Level (Optional, Unless Steel)

PURPOSE: The REF Segment specifies identifying numbers.

EXAMPLE: 1 2
REF*HC*12345
REF*HC*67890

Elem	AIAG	Element Name & Definition
ID	#	

REF01	128	Reference Number Qualifier. Nexteer will accept code "HC" - Heat Code.
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REF02	127	Reference Number
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SEGMENT: CTT Segment Summary (Required)

PURPOSE: The CTT Segment summarizes the transaction totals.

EXAMPLE: CTT*1¹

Elem ID	AIAG #	Element Name & Definition
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CTT01	354	Number of Line Items. This segment specifies the total number of line items in a transaction.
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SEGMENT: SE Segment Summary (Required)

PURPOSE: The SE Segment is a transaction set trailer. It indicates the end of the transaction set and provides a count of transmitted segments including the beginning and the ending segments.

EXAMPLE: 1 2
SE*28*000000001

Elem ID	AIAG #	Element Name & Definition
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SE01	96	Number of Included Segments.
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SE02	329	Transaction Set Control Number. The number value in this trailer must match the same element value in the transaction set header (ST Segment).
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SEGMENT: GE Segment Summary (Required)

PURPOSE: The GE Segment specifies the end of a functional group of related transaction sets.

EXAMPLE: 1 2
 GE*1*000000001

Elem	AIAG	Element Name & Definition
ID	#	

GE01	97	Number of Included Transaction Sets.
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GE02	28	Data Interchange Control Number. This number must be identical to the same data element in the functional group header (GS Segment).
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SEGMENT: IEA Segment Summary (Required)

PURPOSE: The IEA Segment is the interchange control trailer. The purpose is to define the end segment of the envelope.

EXAMPLE: IEA*¹1*²000000001

Elem ID	AIAG #	Element Name & Definition
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IEA01	405	Number of Included Groups Segment. This is the number of GS segments included between the ISA and IEA segments.
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IEA02	709	Interchange Control Number. The control number must match the interchange control number of the ISA segment.
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